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File: USPT

Nov 12, 2002

US-PAT-NO: 6479182

DOCUMENT-IDENTIFIER: US 6479182 B1

TITLE: Fuel cell electrode assembly with selective catalyst loading

DATE-ISSUED: November 12, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Mercuri; Robert Angelo	Seven Hills	OH		

US-CL-CURRENT: 429/44; 29/623.1, 427/115, 429/30, 429/39, 429/40

ABSTRACT:

A membrane electrode assembly is provided. More particularly, an assembly is provided which includes a pair of electrodes and an ion exchange membrane having opposed major surfaces positioned between the electrodes, at least one of the electrodes being formed of a sheet of a compressed mass of expanded graphite particles having a plurality of transverse fluid channels passing through the sheet between first and second opposed surfaces of the sheet, one of opposed surfaces abutting the ion exchange membrane. At least one of the surfaces of the ion exchange membrane has a catalyst metal selectively loaded thereon.

30 Claims, 14 Drawing figures

Exemplary Claim Number: 7

Number of Drawing Sheets: 6